AMENDMENTS TO THE CLAIMS

Applicants submit below a complete listing of the current claims, including marked-up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (Currently amended) A method of manufacturing a photoelectric conversion device using a semiconductor electrode comprising semiconductor nanoparticles, the method comprising:

coating a paste containing a binder and semiconductor nanoparticles dispersed therein on a transparent conductive substrate; and

forming the semiconductor electrode by drying the paste, and thereafter pressing the paste to bond the semiconductor nanoparticles onto the transparent conductive substrate while heating it to a temperature in the range from 30C to a softening temperature of the transparent conductive substrate, wherein pressing the paste includes contacting the paste with a device suited for pressing.

2. (Previously presented) The method of manufacturing a photoelectric conversion device according to claim 1 wherein the temperature is equal to or higher than 50C.

3. (Previously presented) The method of manufacturing a photoelectric conversion device according to claim 1 wherein the temperature is equal to or lower than 200C.

4. (Previously presented) The method of manufacturing a photoelectric conversion according to claim 1 wherein the temperature is in a range from 50C to 120C.

5. (Previously presented) The method of manufacturing a photoelectric conversion device according to claim 1 wherein the transparent conductive substrate includes a transparent plastic substrate.

6. (Previously presented) The method of manufacturing a photoelectric conversion device according to claim 1 wherein the semiconductor nanoparticles dispersed in the paste retain a sensitizing dye.

7. (Previously presented) The method of manufacturing a photoelectric conversion device according to claim 1 wherein the photoelectric conversion device is a wet solar cell.

8. (Currently amended) A photoelectric conversion device using a semiconductor electrode comprising semiconductor nanoparticles, the device comprising:

said semiconductor electrode formed by:

coating a paste containing a binder and semiconductor nanoparticles dispersed therein on a transparent conductive substrate; and

forming the semiconductor electrode by drying the paste, and thereafter pressing the paste to bond the semiconductor nanoparticles onto the transparent conductive substrate while heating it to a temperature in the range from 30C to a softening temperature of the transparent conductive substrate, wherein pressing the paste includes contacting the paste with a device suited for pressing.

9. (Original) The photoelectric conversion device according to claim 8 wherein the photoelectric conversion device is a wet solar cell.

10. (Currently amended) A method of manufacturing a photoelectric conversion device using a semiconductor electrode comprising semiconductor nanoparticles, the method comprising:

coating a paste containing a binder and containing semiconductor nanoparticles retaining a sensitizing dye and dispersed therein on a transparent conductive substrate; and

forming the semiconductor electrode by drying the paste, and thereafter pressing the paste to bond the semiconductor nanoparticles onto the transparent conductive substrate while heating it to a temperature in the range from 30C to a lower one of a softening temperature of the transparent conductive substrate and a deactivation temperature of the sensitizing dye, wherein pressing the paste includes contacting the paste with a device suited for pressing.

11. (Original) The manufacturing method of a photoelectric conversion device according to claim 10 wherein the photoelectric conversion device is a wet solar cell.

12. (Currently amended) A photoelectric conversion device using a semiconductor electrode comprising semiconductor nanoparticles, the device comprising:

said semiconductor electrode formed by:

coating a paste containing a binder and containing semiconductor nanoparticles retaining a sensitizing dye and dispersed therein on a transparent conductive substrate; and

forming the semiconductor electrode by drying the paste, and thereafter pressing the paste to bond the semiconductor nanoparticles onto the transparent conductive substrate while heating it to a temperature in the range from 30C to a lower one of a softening temperature of the transparent conductive substrate and a deactivation temperature of the sensitizing dye, wherein pressing the paste includes contacting the paste with a device suited for pressing.

13. (Original) The photoelectric conversion device according to claim 12 wherein the photoelectric conversion device is a wet solar cell.

14. (Currently amended) A method of manufacturing an electronic apparatus using a semiconductor electrode comprising semiconductor nanoparticles, the method comprising:

coating a paste containing a binder and semiconductor nanoparticles dispersed therein on a substrate; and

forming the semiconductor electrode by drying the paste, and thereafter pressing the paste to bond the semiconductor nanoparticles onto the substrate while heating it to a temperature in the range from 30C to a softening temperature of the substrate, wherein pressing the paste includes contacting the paste with a device suited for pressing.

15. (Currently amended) An electronic apparatus using a semiconductor electrode comprising semiconductor nanoparticles, the apparatus comprising:

said semiconductor electrode formed by:

coating a paste containing a binder and semiconductor nanoparticles dispersed therein on a substrate; and

forming the semiconductor electrode by drying the paste, and thereafter pressing the paste to bond the semiconductor nanoparticles onto the substrate while heating it to a temperature in the range from 30C to a softening temperature of the substrate, wherein pressing the paste includes contacting the paste with a device suited for pressing.

16. (Currently amended) A method of manufacturing an electronic apparatus using a semiconductor electrode comprising semiconductor nanoparticles, the method comprising:

coating a paste containing a binder and containing semiconductor nanoparticles retaining a sensitizing dye and dispersed therein on a substrate; and

forming the semiconductor electrode by drying the paste, and thereafter pressing the paste to bond the semiconductor nanoparticles onto the substrate while heating it to a temperature in the range from 30C to a lower one of a softening temperature of the substrate and a deactivation temperature of the sensitizing dye, wherein pressing the paste includes contacting the paste with a device suited for pressing.

17. (Currently amended) An electronic apparatus using a semiconductor electrode comprising semiconductor nanoparticles, the apparatus comprising:

said semiconductor electrode formed by:

coating a paste containing a binder and containing semiconductor nanoparticles retaining a sensitizing dye and dispersed therein on a substrate; and

forming the semiconductor electrode by drying the paste, and thereafter pressing the paste to bond the semiconductor nanoparticles onto the substrate while heating it to a temperature in the range from 30C to a lower one of a softening temperature of the transparent conductive substrate and a deactivation temperature of the sensitizing dye, wherein pressing the paste includes contacting the paste with a device suited for pressing.

18. (New) The method of manufacturing a photoelectric conversion device according to claim 1 wherein the binder is selected from the group consisting of cellulose, kinds of polyether, polyvinyl alcohol, polyacrylic acid, polyachrylamide, polyethylene glycol,

polyethylene imine, poly(metha)acrylic methyl, polyvinylidene fluoride, styrene butadiene rubber, polyamide imide, polytetra fluoroethylene (fluorocarbon resin), or combinations thereof.